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STS OPS FLIGHT PRD VOLUME II, PAYLOADS

PRD/PSP/OR/OD

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STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 1031 - INDEX

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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SECTION 1410 - TEST VEHICLE METRIC SYSTEMS DESCRIPTION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09
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[PRD] DATABASE RECORD:	520769	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/18/92

ITEM NUMBER: GT1EGT

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SECTION 2000 - TEST REQUIREMENTS/SUPPORT PLANS

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[PRD] DATABASE RECORD:	344796	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/27/01
		INITIAL DATE:	06/26/89
ITEM NUMBER:	T1G	DATE LAST CHANGED:	03/12/03
SECTION:	2000	TIME LAST CHANGED:	11:05:50

REQUESTER:	JSC		
TEST CODE:	ALPHSE	INFO	STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

The JSC MCC and STS flight elements (Orbiter, Upper Stages, etc.) are designed to provide channels of communications between payloads being flown and their User's respective Payload Operations Control Center (POCC). The requirements stated herein are for STS standard capabilities for a single flight. Multiple flight capabilities are TBD. Included as STS standard features are telemetry from the payloads, command capability to the payloads, voice voice communications with the Orbiter flight crew and ground operations personnel, and STS flight element telemetry and trajectory data to the POCC's. Generally four POCC's can be supported simultaneously during any single mission phase, and on a time-shared basis up to eight POCC's can interface with JSC during the mission period; exceptions for specific data are identified individually.

Payload data are proprietary to the Principal Investigator and routing, handling and use of these data by anyone other than the Principal Investigator must have prior authorization. GSFC is required to provide the communications interface capability between the

MCC and remote POCC's. User requirements that exceed the standard capabilities will be negotiated and costs/charges are to be paid by the user.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/16/01

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[PRD] DATABASE RECORD: 351752 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 09/24/01
INITIAL DATE: 06/26/89
ITEM NUMBER: T2G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50
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REQUESTER: JSC
TEST CODE: ALPHSE INFO STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

Payload Telemetry Support:

The STS is required to provide payload and STS telemetry data from the STS Mission Control Center (MCC-Houston) for distribution to the various Payload Operations Control Centers (POCC's). The MCC will provide a standard set of telemetry data types to GSFC. The data will be provided in either the standard 4800 bit NASCOM Blocked format (BDF) or in a bit contiguous serial format. GSFC is required to provide an interface point from which a payload user can route data to his POCC.

The following is a summary of the telemetry data types and general characteristics of the standard services offered. NSTS-21063 POCC Capabilities Document, describe the detailed standard capabilities offered to an STS Payload user. GSFC will provide an interface point from which a payload user can receive payload and STS data for transmission to the user's POCC. Users may request GSFC assistance for

providing the data transmission between GSFC and the user POCC. This request will be negotiated with the user, and costs/charges will be paid by the user.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/24/01

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[PRD] DATABASE RECORD: 360803 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 09/24/01
INITIAL DATE: 06/26/89
ITEM NUMBER: T3G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50
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[PRD] DATABASE RECORD: 360803
ITEM NUMBER: T3G

REQUESTER: JSC
TEST CODE: ALPHSE INFO STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

Payload Data Interleaver (PDI) Frame Data: The Orbiter PDI can interface with up to 5 payloads, process data from up to 4 payloads, and output to the PCMMU up to 64 kbps. PDI frame data may be output from JSC up to 4 data streams in either a BDF or serial mode. Current requirements include telemetry data rates ranging from 10 to 64000 bits per second.

The BDF data will be formatted in standard NASCOM 4800-bit blocks, and converted to IP packets for transmission. Block rates will be a function of the user's telemetry frame rate and/or bit rate. Specifically for telemetry bit rates less than a full BDF data field per second (4624 data bits), JSC will output a partially filled block with at least one frame of telemetry data. For bit rates equal to or greater than 4624 bits/seconds, JSC will output BDF blocks at a rate necessary to support the user's bit rate.

For Payload users requiring serial data, JSC will extract the PDI frame data from the OD and serialize the data and input it to a port on the MDM at JSC. Serial data and clock will be provided to the MDM. Specific MDM port assignments and routing information will be provided for the specific Payload. GSFC will provide an interface point from which a payload user can receive BDF (4800-bit blocks) or serial data and clock.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/24/01

[PRD] DATABASE RECORD:	371590	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/27/01
		INITIAL DATE:	05/31/89
ITEM NUMBER:	T4G	DATE LAST CHANGED:	07/26/04
SECTION:	2000	TIME LAST CHANGED:	09:27:43

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[PRD] DATABASE RECORD: 371590
ITEM NUMBER: T4G

REQUESTER: JSC
TEST CODE: ALPHSE INFO STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

Payload Parameter Frame Data: JSC can select User specified
payload parameters from the OD and format them into a standard PCM
telemetry format. This data can then be output in either the BDF
format or as serial data.

In the case of the BDF format, JSC outputs one BDF (one
complete telemetry frame) each second. For serial users, JSC
will provide data and clock at the users rate not to exceed 64Kbs.

MDM port assignments for BDF format users will be defined for the
specific payload.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/23/04

[PRD] DATABASE RECORD: 374287 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-II APPROVAL DATE: 08/03/01

ITEM NUMBER: T5G

[PRD] DATABASE RECORD: 376077 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 08/28/87
INITIAL DATE: 08/28/87
ITEM NUMBER: T6G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50

REQUESTER: JSC
TEST CODE: ALPHSE INFO STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

STS Status Messages: JSC will output a status message in BDF

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[PRD] DATABASE RECORD: 376077
ITEM NUMBER: T6G

mode only, containing telemetry status and quality. These
messages will be output once each second to each POCC requiring
this support.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/05/88

[PRD] DATABASE RECORD: 378706 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: T7G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50

REQUESTER: JSC
TEST CODE: ALPHSE INFO STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

Command Data:

JSC can receive from a POCC, via GSFC, command data on a circuit
formatted in NASCOM 4800-bit blocks. Maximum data transmission
can be 64 words of 16 bits each transmitted at the rate of one
transmission every 2 seconds. The MCC will send to a POCC a
Command Acceptance Pattern (CAP) message for each transmission
received. Each CAP will be contained in a single NASCOM 4800-bit
block. JSC can transmit real-time command histories and
each history consisting of the most current 75 files can utilize
a maximum of 9 NASCOM 4800-bit blocks. Command histories will be
limited to a single JSC output which must be time-shared by all
POCC's. When multiple POCC's require the same data, JSC will
output duplicate messages with unique destination codes for each
location. The block data rate for multiple blocks of command data
input and CAP/History data output is one and eight blocks per
second, respectively. Support for two POCC's simultaneously with
command capability and a maximum of five POCC's for a given flight
is required. GSFC is to provide the capability for two POCC's to

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[PRD] DATABASE RECORD: 378706
ITEM NUMBER: T7G

command simultaneously with an interface capability provided for a maximum of five POCC's. POCC access to command links will be negotiated for each given flight.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89

[PRD] DATABASE RECORD: 385013 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: T8G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50

REQUESTER: JSC
TEST CODE: ALPHSE INFO STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

Trajectory Data:

Trajectory data consists of vector and Orbiter attitude data. All data shall be formatted in the NASCOM standard 4800-bit BDF. The block rate for incoming and outgoing data at the MCC shall be a maximum of five blocks per second. When multiple POCC's require the same data, the MCC will output duplicate messages with unique destination codes for each location. The data can be output to one POCC or each of four POCC's for a single flight phase and on a time-shared basis, up to eight POCC's can be addressed during a single flight. Users are to provide for data circuits between GSFC and POCC.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89

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[PRD] DATABASE RECORD:	402758	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/28/87
		INITIAL DATE:	08/28/87
ITEM NUMBER:	T9G	DATE LAST CHANGED:	03/12/03
SECTION:	2000	TIME LAST CHANGED:	11:05:50

REQUESTER:	JSC		
TEST CODE:	ALPHSE	INFO	STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

Vector Data: The JSC MCC can provide vector data to remote
POCC's. Vector data from the MCC to the remote POCC's may consist
of real-time state vectors or planning vectors. The MCC will
provide the data to GSFC via the NISN circuit.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/05/88

[PRD] DATABASE RECORD:	237413	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/26/89
		INITIAL DATE:	06/26/89
ITEM NUMBER:	T10G	DATE LAST CHANGED:	03/12/03
SECTION:	2000	TIME LAST CHANGED:	11:05:50

REQUESTER:	JSC		
TEST CODE:	ALPHSE	INFO	STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE
WITH REMOTE POCC'S

The JSC MCC can accept Payload vector data from the remote POCC's.
This data will be shipped to the MCC via the NISN circuit. User's
are to provide payload vector data and data circuits to the GSFC
interface point.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89

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PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD: 405202 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: T11G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50
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REQUESTER: JSC
TEST CODE: ALPHSE INFO STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

Orbiter Attitude Data: Orbiter real-time attitude data can be
transmitted from JSC on a request basis or on a once-per-
twelve-seconds cyclical basis. User's are to provide for data service
between GSFC and POCC.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89

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[PRD] DATABASE RECORD: 254016 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: T12G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50
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REQUESTER: JSC
TEST CODE: ALPHSE STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE
WITH REMOTE POCC'S

Orbiter Attitude Data (Planning): Selected planning attitude data
can be transmitted to the remote POCC's from the Attitude Time
Line on a requested basis. User's are to provide for data service
between POCC and GSFC interface point as required for timely receipt
of planning data.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89

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FLP2000.008 PAGE SEQUENCE NUMBER: 10 REF UDS R G/A
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[PRD] DATABASE RECORD: 252497 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: T13G DATE LAST CHANGED: 06/13/07
SECTION: 2000 TIME LAST CHANGED: 12:49:56
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REQUESTER: JSC
TEST CODE: ALPHSE STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

NASCOM 4800-Bit Block Multiplexing:

Remote POCC's requiring data communications in the BDF mode may wish to receive and transmit data via a full duplex communications circuit. For data from JSC to a given remote POCC, the telemetry data types (PDI, PPF, ANC, STATUS) can all be multi-plexed and input to one port on the GSFC MDM at JSC. All other data (trajectory, commands, CAPS, command history data) will be blocked, multiplexed, and input to another single MDM port. GSFC is required to have the capability to select all messages destined for a single remote POCC and provide these messages multiplexed to the standard interface at GSFC. Data from remote POCC'S, received at JSC MCC (commands, trajectory) will be multiplexed and available at an output port of the MDM at JSC. User's are to provide for data service between GSFC and POCC.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89

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[PRD] DATABASE RECORD: 255218 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: T14G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50
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REQUESTER: JSC
TEST CODE: ALPHSE STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCC'S

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[PRD] DATABASE RECORD: 255218
ITEM NUMBER: T14G

Voice Communications: A maximum of eight long-lines for POCC voice loops will be required between GSFC and the JSC. The voice loops include one FD, two A/G loops, and five coordination circuits. GSFC is required to provide the capability for conferencing so that each remote POCC can connect to all eight voice loops. Additional voice circuits between JSC or GSFC and the user's POCC's for private coordination services may be negotiated with all costs/charges to be paid by the user.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/29/89

[PRD] DATABASE RECORD: 251945 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 06/26/89
INITIAL DATE: 06/26/89
ITEM NUMBER: T15G DATE LAST CHANGED: 03/12/03
SECTION: 2000 TIME LAST CHANGED: 11:05:50

REQUESTER: JSC
TEST CODE: ALPHSE STSALL

1. DESCRIPTION: STS STANDARD CAPABILITIES TO INTERFACE WITH
REMOTE POCCS

Teletype Communications: GSFC is required to provide the interface point and switching for two full-period operational TTY circuits between the MCC and remote POCCs. User's to provide for TTY circuits between GSFC and POCC's.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/26/89

[PRD] DATABASE RECORD: 268633 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-II APPROVAL DATE: 08/16/01
ITEM NUMBER: T16G

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[PRD] DATABASE RECORD:      22744      REQUIREMENT STATUS: APPROVED
DOCUMENT ID:      FLT-II      APPROVAL DATE:      10/08/90
                               INITIAL DATE:      07/31/90
ITEM NUMBER:      GS20G      DATE LAST CHANGED:      12/05/06
SECTION:      2000      TIME LAST CHANGED:      09:37:23

REQUESTER:      GSFC      SDTW
SUBREQUESTER:      21SOPS      OAS
TEST CODE:      FREFLT      LAEORY      LANDNG
                PREFLT      STSALL
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1. DESCRIPTION: RTS NETWORK SUPPORT REQUIREMENTS

GSFC is required to provide SMC SDTW/ RTS Network Support Requirements
in accordance with the following schedule:

Modification Required to AFSCN	36 Months
Multiple Payload Support	18 Months
Single Payload Support	12 Months
Shuttle Orbiter-Only Support	3 Months

RTS Network Support Requirements to be addressed to:

50SW/XP RANDY WAGNER (randy.wagner@shriever.af.mil)
FAX NO: (719) 567-6551

CC: 21SOPS/DOD FAX NO: (408) 752-3175
22SOPS/DOO/Brian Bayless (brian.bayless@shriever.af.mil)
FAX NO: (719) 567-3264

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/08/90

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SECTION 2100 - METRIC DATA

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09
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[PRD] DATABASE RECORD:	520899	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	10/29/96
ITEM NUMBER: T1EGT			

[PRD] DATABASE RECORD:	525383	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	03/03/95
ITEM NUMBER: T2G			

[PRD] DATABASE RECORD:	526438	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/21/94
ITEM NUMBER: H3GT			

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STS OPS FLIGHT PRD VOLUME II, PAYLOADS
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PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE:	08/10/92	REVISION:	0000	RUN DATE:	01/12/09
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[PRD] DATABASE RECORD:	520456	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/18/94		

ITEM NUMBER:	GT1EGT				

[PRD] DATABASE RECORD:	521691	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/18/00		

ITEM NUMBER:	H2GT				

[PRD] DATABASE RECORD:	521692	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/18/00		

ITEM NUMBER:	HT3GST				

[PRD] DATABASE RECORD:	527838	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/12/95		

ITEM NUMBER:	T4EG				

[PRD] DATABASE RECORD:	528879	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/04/95		

ITEM NUMBER:	H5GT				

[PRD] DATABASE RECORD:	530493	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/19/99		

ITEM NUMBER:	T6EGKT				

[PRD] DATABASE RECORD:	553018	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/05/00		

ITEM NUMBER:	T7GKT				

[PRD] DATABASE RECORD:	561420	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	02/14/03		

ITEM NUMBER:	T8EGKT				

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD:	514326	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	12/04/92

ITEM NUMBER: T1G

[PRD] DATABASE RECORD:	527059	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/18/00

ITEM NUMBER: H4GT

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD:	526109	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/18/97

ITEM NUMBER: G1GT

[PRD] DATABASE RECORD:	526296	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/21/00

ITEM NUMBER: T2GH

[PRD] DATABASE RECORD:	528974	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/05/95

ITEM NUMBER: HT5G

[PRD] DATABASE RECORD:	530384	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/04/95

ITEM NUMBER: T6GT

[PRD] DATABASE RECORD:	530496	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/16/96

ITEM NUMBER: T7EGKT

[PRD] DATABASE RECORD:	530513	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98

ITEM NUMBER: T8EGKT

[PRD] DATABASE RECORD:	532765	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/18/97

ITEM NUMBER: T9.1G

[PRD] DATABASE RECORD:	532404	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/18/99

ITEM NUMBER: T11GT

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD:	532405	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	02/27/97

ITEM NUMBER: HT11.1G

[PRD] DATABASE RECORD:	532545	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98

ITEM NUMBER: HT12GT

[PRD] DATABASE RECORD:	561421	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	02/14/03

ITEM NUMBER: T14EGKT

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE:	08/10/92	REVISION:	0000	RUN DATE:	01/12/09
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[PRD] DATABASE RECORD:	521706	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/18/00		
ITEM NUMBER:	H1GT				

[PRD] DATABASE RECORD:	521705	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/18/00		
ITEM NUMBER:	H2G				

[PRD] DATABASE RECORD:	524168	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/30/93		
ITEM NUMBER:	I3GT				

[PRD] DATABASE RECORD:	525617	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	10/04/00		
ITEM NUMBER:	K4GH				

[PRD] DATABASE RECORD:	527845	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/05/95		
ITEM NUMBER:	T5EG				

[PRD] DATABASE RECORD:	528880	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/04/95		
ITEM NUMBER:	H6GT				

[PRD] DATABASE RECORD:	534671	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/18/99		
ITEM NUMBER:	T7GT				

[PRD] DATABASE RECORD:	539894	REQUIREMENT STATUS:	DELETED		
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98		
ITEM NUMBER:	GT9GT				

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD: 594258 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-II APPROVAL DATE: 01/14/08
INITIAL DATE: 01/11/08
ITEM NUMBER: GT11GT DATE LAST CHANGED: 02/21/08
SECTION: 2734 TIME LAST CHANGED: 08:36:45

REQUESTER: GSFC JSC
TEST CODE: ALPHSE STSALL
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1. DESCRIPTION: DSMC NETWORK SCHEDULING

SN RESOURCES

The planning week for forecast scheduling begins on the Monday, 21 days prior to the existing real-time week. Mission support and critical times for SSP should be coordinated with forecast scheduling during this week. All requests for support that are received by 1200Z the following Monday, 14 days prior to the real-time week, will be scheduled by priority. Mission support for SSP by the SN shall be requested in the form of Schedule Add Requests (SAR's) transmitted via high speed data messages from JSC to the DSMC. Changes, in the form of adds and deletes, will be utilized to accommodate schedules start/stop time differences between nominal pre-mission forecasted schedules and actual lift off time and trajectory changes. Other centers having requirements involving SN support of the SSP must coordinate their support requirements with JSC.

1. A circuit of 64 kbps between the DSMC and the MCC shall be provided for TDRSS scheduling messages. This interface shall be full duplex and shall be shared between the ISS and SSP Programs.
2. A NISN Mission Critical service is required.
3. The interface shall provide security appropriate for "Space Operation Information".
4. Refer to the JSC MCC to SN NCCDS Operational Communications ICD for MCC System (JSC 11534 Volume XVI, latest revision) for detailed interface specifications.

REF: FLT-I Section 2734 DBR 594242
ISS Vol-I Section 2734 DBR 556504

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/08

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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CONTINUED

[PRD] DATABASE RECORD: 594258
ITEM NUMBER: GT11GT

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/14/08

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09
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 [PRD] DATABASE RECORD: 514617 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 04/06/94
 ITEM NUMBER: T2GST

 [PRD] DATABASE RECORD: 514730 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 04/06/94
 ITEM NUMBER: T3EGST

 [PRD] DATABASE RECORD: 528956 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 06/05/95
 ITEM NUMBER: HT6.1G

 [PRD] DATABASE RECORD: 516361 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-II APPROVAL DATE: 06/12/95
 INITIAL DATE: 08/21/91
 ITEM NUMBER: T7GT DATE LAST CHANGED: 09/28/07
 SECTION: 2750 TIME LAST CHANGED: 12:31:44
 REQUESTER: JSC
 TEST CODE: ALPHSE STSALL

1. DESCRIPTION: PAYLOAD OPERATIONS CONTROL CENTER-1 (POCC-1)
 RESPONSIBLE AGENCY: JSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		MCC distribution
T2		T	1	Extension to GSFC
T3		T		GSFC distribution
T4		T		GSFC POCC
T5		T		GSFC NIC

NOTE: 1. Circuits activated only when GSFC POCC is required
 for support of GSFC payloads.

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)
 SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/23/95
 SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)
 SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/12/95

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

CONTINUED

[PRD] DATABASE RECORD: 516361
 ITEM NUMBER: T7GT

[PRD] DATABASE RECORD: 516367 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 06/12/95

ITEM NUMBER: T9G

[PRD] DATABASE RECORD: 516369 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 07/19/94

ITEM NUMBER: T10.1G

[PRD] DATABASE RECORD: 519593 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 12/04/92

ITEM NUMBER: T11GT

[PRD] DATABASE RECORD: 519594 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 12/04/92

ITEM NUMBER: T12G

[PRD] DATABASE RECORD: 530385 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 08/18/99

ITEM NUMBER: T16GT

[PRD] DATABASE RECORD: 530512 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 08/03/01

ITEM NUMBER: T17GT

[PRD] DATABASE RECORD: 530514 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-II APPROVAL DATE: 04/13/98

ITEM NUMBER: T18GT

FLP2750.002 PAGE SEQUENCE NUMBER: 23 REF UDS NR 225

CLASSIFICATION UNCLASSIFIED

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STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09
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[PRD] DATABASE RECORD:	530515	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98
ITEM NUMBER: T18.1EGK			

[PRD] DATABASE RECORD:	532766	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/18/97
ITEM NUMBER: T19GT			

[PRD] DATABASE RECORD:	532767	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/18/97
ITEM NUMBER: T19.1G			

[PRD] DATABASE RECORD:	532406	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/18/99
ITEM NUMBER: T21EGKT			

[PRD] DATABASE RECORD:	532407	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	02/27/97
ITEM NUMBER: HT21.1G			

[PRD] DATABASE RECORD:	532546	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98
ITEM NUMBER: HT22GT			

[PRD] DATABASE RECORD:	534670	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/18/99
ITEM NUMBER: T23GT			

[PRD] DATABASE RECORD:	535332	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/18/97
ITEM NUMBER: T24GT			

FLP2750.003

PAGE SEQUENCE NUMBER: 24
CLASSIFICATION UNCLASSIFIED

REF UDS NR 225

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD:	536643	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/18/99

ITEM NUMBER: HT26GKT

[PRD] DATABASE RECORD:	537796	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	09/23/97

ITEM NUMBER: T27G

[PRD] DATABASE RECORD:	537955	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98

ITEM NUMBER: T28GT

[PRD] DATABASE RECORD:	537956	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/18/99

ITEM NUMBER: T29GT

[PRD] DATABASE RECORD:	538684	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98

ITEM NUMBER: T30GT

[PRD] DATABASE RECORD:	539803	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98

ITEM NUMBER: T31EGKT

[PRD] DATABASE RECORD:	539888	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	04/13/98

ITEM NUMBER: GT32GT

[PRD] DATABASE RECORD:	547580	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/18/99

ITEM NUMBER: T34GHT

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FLP2750.004	PAGE SEQUENCE NUMBER: 25	REF UDS NR 225
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CLASSIFICATION UNCLASSIFIED

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STS OPS FLIGHT PRD VOLUME II, PAYLOADS
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD:	547581	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	01/18/99

ITEM NUMBER: T34.1G

[PRD] DATABASE RECORD:	547802	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/17/99

ITEM NUMBER: T35GT

[PRD] DATABASE RECORD:	553010	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/05/00

ITEM NUMBER: HT36GHT

[PRD] DATABASE RECORD:	553012	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/05/00

ITEM NUMBER: T36.1G

[PRD] DATABASE RECORD:	553014	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/05/00

ITEM NUMBER: T37GT

[PRD] DATABASE RECORD:	561424	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	11/05/01

ITEM NUMBER: T39GT

[PRD] DATABASE RECORD:	593778	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	05/08/08

ITEM NUMBER: T42GT

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE:	08/10/92	REVISION:	0000	RUN DATE:	01/12/09
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[PRD] DATABASE RECORD:	527839			REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II			APPROVAL DATE:	06/06/95

ITEM NUMBER:	T1EG				

[PRD] DATABASE RECORD:	530495			REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II			APPROVAL DATE:	08/18/99

ITEM NUMBER:	T2EGKT				

[PRD] DATABASE RECORD:	538687			REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II			APPROVAL DATE:	04/13/98

ITEM NUMBER:	T3GT				

[PRD] DATABASE RECORD:	539887			REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II			APPROVAL DATE:	04/13/98

ITEM NUMBER:	GT4GT				

[PRD] DATABASE RECORD:	553017			REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II			APPROVAL DATE:	08/03/01

ITEM NUMBER:	T5EGKT				

[PRD] DATABASE RECORD:	561426			REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II			APPROVAL DATE:	01/02/03

ITEM NUMBER:	T6EGKT				

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2780 - OTHER COMMUNICATIONS

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09
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[PRD] DATABASE RECORD:	522727	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/08/95

ITEM NUMBER: T1EG

[PRD] DATABASE RECORD:	522728	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/08/95

ITEM NUMBER: T2G

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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[PRD] DATABASE RECORD:	525616	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	07/18/00

ITEM NUMBER: H1GT

[PRD] DATABASE RECORD:	530387	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	08/17/99

ITEM NUMBER: T2EGK

[PRD] DATABASE RECORD:	559050	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-II	APPROVAL DATE:	06/13/08
		INITIAL DATE:	05/31/01
ITEM NUMBER:	T3GT	DATE LAST CHANGED:	06/20/08
SECTION:	2800	TIME LAST CHANGED:	09:06:36

REQUESTER: JSC
SUBREQUESTER: P01-05-1 P01-06-1 P01-07-1
TEST CODE: ALPHSE

1. DESCRIPTION: COMPRESSED VIDEO (CLI)

The MCC is to provide the capability to compress and transport one compressed video with one audio channel at a rate (serial clock and data) not to exceed 1.544Mbps across the NISN WAN.

NISN is to provide one each dedicated serial clock and data service between JSC and GSFC, at a line rate not to exceed 1,544Mbps for the transmission on a shared-use bases of compressed video/1 audio channel products.

REF: FLT-I ITEM T15GT SECTION 2805 DBR 559047

SUPPLIER: GSFC AGENCY: GSFC/451 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/18/08

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)
RESPONDER: ROBERT MARRIOTT

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/13/08

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD VOLUME II, PAYLOADS
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 08/10/92 REVISION: 0000 RUN DATE: 01/12/09

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CONTINUED

[PRD] DATABASE RECORD: 559050
ITEM NUMBER: T3GT

FLP2800.002 PAGE SEQUENCE NUMBER: 30 REF UDS R 232
CLASSIFICATION UNCLASSIFIED
LAST PAGE OF REPORT

THIS REPORT CONTAINS 30 PAGES

REPORT BY: FORM=06 DOC=FLT-II SPL= G ,Y ,S P1030=N